



#5

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Armstrong, Marcy E.
 Keys, Robert D.
 Lewis, John A.
 Liu, Margaret A.
 McClements, William L.

(ii) TITLE OF INVENTION: A POLYNUCLEOTIDE HERPES VIRUS
 VACCINE

(iii) NUMBER OF SEQUENCES: 15

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Merck & Co., Inc.
 (B) STREET: P.O. Box 2000, 126 E. Lincoln Ave.
 (C) CITY: Rahway
 (D) STATE: NJ
 (E) COUNTRY: USA
 (F) ZIP: 07065-0907

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
 (B) COMPUTER: IBM Compatible
 (C) OPERATING SYSTEM: Windows
 (D) SOFTWARE: FastSEQ for Windows Version 2.0b

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/835,699
 (B) FILING DATE: 16-April-2001
 (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: PCT/US97/17262
 (B) FILING DATE: 26-SEP-1997

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/720,758
 (B) FILING DATE: 01-OCT-1996

(ix) ATTORNEY/AGENT INFORMATION:

(A) NAME: Hand, J. Mark
 (B) REGISTRATION NUMBER: 36,545
 (C) REFERENCE/DOCKET NUMBER: 19258CC

(x) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 732-594-3905
 (B) TELEFAX: 732-594-4720
 (C) TELEX:

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 23 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...23
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...23
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CTATATAAGC AGAGCTCGTT TAG

23

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 30 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...30
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...30
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GTAGCAAAGA TCTAAGGACG GTGACTGCAG

30

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 38 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...38
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...38
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GTATGTGTCT GAAAATGAGC GTGGAGATTG GGCTCGCA

38

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 39 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...39
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...39

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GTGCGAGGCC AATCTCCACG CTCATTTCAG GACACATAC

39

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...78
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...78

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GATCACCATG GATGCAATGA AGAGAGGGCT CTGCTGTGTG CTGCTGCTGT GTGGAGCAGT
CTTCGTTTCG CCCAGCGA60
78

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...78
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...78
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GATCTCGCTG GGCAGAACGA AGACTGCTCC ACACAGCAGC AGCACACAGC AGAGCCCTCT 60
 CTTCATTGCA TCCATGGT 78

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...27
- (D) OTHER INFORMATION: nucleic acid

- (A) NAME/KEY:
- (B) LOCATION: 1...27
- (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GTACCTCATG AGCCACATAA TACCATG 27

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 40 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...40
- (D) OTHER INFORMATION: nucleic acid

- (A) NAME/KEY:
- (B) LOCATION: 1...40
- (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GGTACAAGAT CTACCATGGC TTGCAATTGT CAGTTGATGC 40

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...42
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...42
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

CCACATAGAT CTCCATGGGA ACTAAAGGAA GACGGTCTGT TC

42

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 33 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...33
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...33
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GGTACAAATA TTGGCTATTG GCCATTGCAT ACG

33

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 36 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other
 (ix) FEATURE:

(A) NAME/KEY: Other
 (B) LOCATION: 1...36
 (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:
 (B) LOCATION: 1...36
 (D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

CCACATCTCG AGGAACCGGG TCAATTCTTC AGCACC

36

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...38
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...38

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12

38

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...37
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...37

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCACATGGAT CCGTAATGCT CTGCCAGTGT TACAACC

37

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 39 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...39
- (D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...39

19258-0000000000

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GGTACATGAT CACGTAGAAA AGATCAAAGG ATCTTCTTG

39

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(ix) FEATURE:

(A) NAME/KEY: Other

(B) LOCATION: 1...35

(D) OTHER INFORMATION: nucleic acid

(A) NAME/KEY:

(B) LOCATION: 1...35

(D) OTHER INFORMATION: desc = "oligonucleotide"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCACATGTCG ACCCGTAAAA AGGCCGCGTT GCTGG

35